ELSEVIER

Journal of Magnetism and Magnetic Materials 155 (1996) 393–398

Journal of magnetism and magnetic materials

Author index to volume 155

Abelmann, L., see Immink, A.H.J. 279
Ariake, J., N. Honda, T. Keitoku, K. Ouchi and S.-i. Iwasaki, Nb addition to Co–Cr media for perpendicular magnetic recording 228
Ariake, J., see Honda, N. 154
Asano, K., S. Takatori and M. Memering, The magnetic switching volume of cobalt-modified iron oxides and its application to improved video properties 107
Atkinson, R. and M. O'Neill, Giant polar MO Kerr effect in high reflectance multilayer enhanced structures 361

Baek, J.-S., see Yu, S.-C. 225
Becker, S., M. Kratzer, H. Rohrmann and K. Röll, Influence of nitrogen surplus in SiN coverlayers on MO media 376
Bernards, J.P.C., D. Raasch, G. Much and C. Clausen, Magnetic properties of exchange coupled layers for magneto-optical recording 370
Bernards, J.P.C., see Stupp, S.E. 300
Betteridge, S., see Morales, M.P. 129
Bhushan, B., Macro- and microtribology of magnetic rigid-disk storage devices (*Invited paper*) 318
Bijker, M.D., see Immink, A.H.J. 279
Bijl, D.B., see Samwel, E.O. 292
Birtwistle, K., see Casey, S. 348
Bishop, J.E.L., see Hua, L. 49
Bissell, P.R., see McConochie, S.R. 89
Bissell, P.R., see Sollis, P.M. 123
Bissell, P.R., see Suzuki, H. 196
Bissell, P.R., see Warren, A.P. 19
Blythe, H.J. and V.M. Fedosyuk, Thermoremanence and zero-field-cooled susceptibility measurements of electrodeposited granular CuCo alloys 352
Blythe, H.J., see Williams, J.M. 355
Bottoni, G., D. Candolfo and A. Cecchetti, Effect of the coupling between Co and CoO in metal evaporated tapes 297
Bottoni, G., D. Candolfo and A. Cecchetti, Temperature effects on time-dependent magnetic phenomena in recording media 52
Bottoni, G., D. Candolfo, A. Cecchetti and D. Palmeri, Co-based metallic glass as a precursor for hard magnetic material 113
Bottoni, G., Rotational hysteresis in particles for magnetic recording with different switching modes 16
Bouet, L., P. Tailhades and A. Rousset, Co–Mn cation-deficient ferrite thin films: interesting ways to tailor their magneto-optical properties 373
Brodt, G., see Weingart, F. 77

Cain, J.L., S.R. Harrison, J.A. Nikles and D.E. Nikles, Preparation of α-Fe particles by reduction of ferrous ion in lecithin/cyclohexane/water association colloids 67
Callegaro, L., E. Puppin, P.L. Cavallotti and G. Zangari, Electroplated, high H_c CoPt films: δM magneto-optical measurements 190
Candolfo, D., see Bottoni, G. 113
Candolfo, D., see Bottoni, G. 297
Candolfo, D., see Bottoni, G. 52
Casey, S., E. Hill, J. Miles, P. Sivasamy, K. Birtwistle, B. Middleton, J. Chapman and J. Rose, A study of PtCo films used for longitudinal recording 348
Cavallotti, P.L., see Callegaro, L. 190
Cecchetti, A., see Bottoni, G. 113
Cecchetti, A., see Bottoni, G. 297
Cecchetti, A., see Bottoni, G. 52
Chandrasekhar, R. and D.J. Mapps, Properties of CoCrTa perpendicular films prepared by sputtering on platinum underlayer with different bias conditions 206
Chandrasekhar, R. and D.J. Mapps, The effects of samarium addition on CoCrTa-based thin films for magnetic recording 202
Chang, C.-R. and J.-S. Yang, Influence of packing factor on coercivity of particle arrays 92
Chang, C.-R., see Klik, I. 31
Chantrell, R.W., see Earl, J.S. 367
Chantrell, R.W., see Phillips, G.N. 364
Chantrell, R.W., see Por, P.T. 70
Chantrell, R.W., see Sollis, P.M. 123
Chantrell, R.W., see Suzuki, H. 196
Chantrell, R.W., see Tako, K.M. 40
Chantrell, R.W., see Walmsley, N.S. 28
Chantrell, R.W., see Warren, A.P. 117
Chantrell, R.W., see Warren, A.P. 19
Chantrell, R.W., see Wongsam, M.A. 37
Chapman, J., see Casey, S. 348

0304-8853/96/$15.00 © 1996 Elsevier Science B.V. All rights reserved

Charap, S., see Davidson, R. 13
Chen, D., see Tang, X. 164
Chen, G.-L., see Tang, X. 164
Cho, K.C., C.Y. Moon and Y.J. Shim, Change of induced anisotropy and magnetic properties due to evaporation conditions in metal evaporated tape 284
Chou, S.Y. and P.R. Krauss, Quantum magnetic disk 151
Clark, T.D., see Howells, G.D. 55
Clausen, C., see Bernards, J.P.C. 370
Clegg, W.W., see Liu, B. 379
Clegg, W.W., see Liu, B. 382
Coverdale, G.N., see Por, P.T. 70
Coverdale, G.N., see Warren, A.P. 117
Cumpson, S.R., see Middleton, B.K. 266

Davidson, R., S. Charap and R. Simmons, Vector combined Preisach model with a biaxial switching operator for simulation of unoriented thin-film media 13
Dean, C., see Warren, A.P. 19
De Haan, S. and J.C. Lodder, Reversal studies on sub-micron Co–Cr thin films by AHE analysis 193
Della Torre, E., see Vajda, F. 25
Dickson, D.P.E., see Morales, M.P. 129
Dickson, D.P.E., see Pankhurst, Q.A. 104
Djayaprawira, D.D., see Shimatsu, T. 242
Djayaprawira, D.D., see Shimatsu, T. 246
Dova, P., K. O'Grady, G.J. Sinclair, G.A. Jones and P.J. Grundy, Magnetic coupling in CoPtCr/Cr trilayer films 176
Doyle, W.D., see He, L. 6

Earl, J.S., A. Lyberatos, R.W. Chantrell and K. O'Grady, An analysis of magnetic viscosity in MO films – II: Simulation 367
Endo, A., see Shimatsu, T. 242

Farkas, J., see Kim, K.J. 73
Fedosyuk, V.M., see Blythe, H.J. 352
Fedosyuk, V.M., see Williams, J.M. 355
Feng, Y.C., see Laughlin, D.E. 146
Fidler, J., see Schrefl, T. 389
Flanders, P.J., see He, L. 6
Fox, S.P. and P.J. Grundy, Magnetic interactions and microstructure in CoCrPt discs 179
Fredrikze, H., see van der Graaf, A. 303
Fujiwara, H., see He, L. 6
Fulmek, P.L., see Hauser, H. 34

Gilson, R.G., see Warren, A.P. 117
Glasgow, P.D., see Kim, K.J. 73
Glijer, P., see Sin, K. 209
Gotaas, J.A., see McConochie, S.R. 89
Gotaas, J.A., see Warren, A.P. 19
Greaves, S.J. and K. O'Grady, Determination of pigment dispersion microstructure by magnetic measurements 120
Grundy, P.J., see Dova, P. 176
Grundy, P.J., see Fox, S.P. 179
Grundy, P.J., see Matsuda, H. 250
Grundy, P.J., see Sinclair, G.J. 182

Hagiwara, H., see Ishiguro, T. 256
Harrell, J.W., see Yu, Y. 126
Harris, V.G., see Sui, X. 132
Harrison, S.R., see Cain, J.L. 67
Hart, A., see Por, P.T. 70
Hart, A., see Walmsley, N.S. 28
Hauser, H. and P.L. Fulmek, Hysteresis calculations by statistical behaviour of particles of high density 34
Hayashi, H., see Li, J. 157
Haycock, P.W., see Ogrin, F.Y. 199
Haycock, P.W., see Wongsam, M.A. 37
He, L., W.D. Doyle, L. Varga, H. Fujiwara and P.J. Flanders, High-speed switching in magnetic recording media (*Invited paper*) 6
Hempel, K.A., see Sürig, C. 289
Hempel, K.A., see Zimmermann, G. 286
Hempel, K.A., see Zimmermann, G. 98
Hempstock, M.S. and J.L. Sullivan, A study of the mechanical and magnetic performance of metal evaporated tape 323
Hill, E., see Casey, S. 348
Hirasaka, M., see Nakai, J. 234
Hisamichi, Y., see Kondo, H. 332
Hobby, P.C., see Warren, A.P. 117
Honda, N., J. Ariake, K. Ouchi and S. Iwasaki, Preparation of Co–Cr films for perpendicular recording by sputter deposition at extremely high Ar pressures 154
Honda, N., see Ariake, J. 228
Howells, G.D., R.J. Prance, T.D. Clark, C. Watkins and C. Vittoria, Imaging the magnetic properties of materials at the 1 μm length scale 55
Hua, L., J.E.L. Bishop and J.W. Tucker, Micromagnetic simulation of domain walls in iron films 49
Huang, H.L., see Sobolev, V.L. 46
Huang, H.L., see Teh, C.T. 43

Ichinose, Y., see Ishiguro, T. 256
Immink, A.H.J., M.D. Bijker, L. Abelmann and J.C. Lodder, Interaction in double layered ME tapes 279
Ishiguro, T., T. Sato, T. Iwashita, S. Yamada, Y. Ichinose, T. Shinohara, M. Tobise and H. Hagiwara, Pole density distribution in CoCrTa/Cr sputtered thin film media and their magnetic properties 256
Iwasaki, S., see Honda, N. 154
Iwasaki, S.-i., see Ariake, J. 228
Iwashita, T., see Ishiguro, T. 256
Iwata, N., see Shimatsu, T. 242

Jacobs, P., see Kim, K.J. 73
Jones, G.A., see Dova, P. 176
Jones, G.A., see Sinclair, G.J. 182
Judy, J.H., see Lin, C.-L. 168
Judy, J.H., see Sin, K. 209

Kadykova, G.N., see Lyakhovich, T.K. 253
Kakazei, G.N. and N.A. Lesnik, The study of the perpendicular anisotropy in the nanocrystalline Ni and Co films 57
Kamei, T., see Kondo, H. 332
Kawakita, S., T. Sakurai, A. Kikuchi, T. Shimatsu and M. Takahashi, Effect of surface cleanness on the magnetic properties of CoNiCr and CoCrTa thin-film media fabricated using an ultraclean sputtering process 172
Kawakita, S., see Kikuchi, A. 238
Kawana, T., T. Takeda, T. Uchimi and K. Sato, Archival stability of metal evaporated tape 273
Keitoku, T., see Ariake, J. 228
Keller, H., H. Rengel and P. Poganiuch, Oxidation protection of magnetic iron particles by ultrathin layers of silanes 101
Kikuchi, A., I. Okamoto, J. Nakai, S. Kawakita, T. Shimatsu and M. Takahashi, Intergranular coupling and recording properties of CoCrTa and CoNiCr thin-film media fabricated using an ultraclean sputtering process 238
Kikuchi, A., see Kawakita, S. 172
Kikuchi, A., see Nakai, J. 234
Kim, D., see Matsuda, H. 250
Kim, K.J., R.R. Vedula, P.D. Glasgow, P. Jacobs and J. Farkas, Functionalized TPU for advanced media applications 73
Klik, I. and C.-R. Chang, Hysteresis of hexagonal lattice arrays 31
Kodama, N., see Suzuki, H. 196
Kondo, H., Y. Hisamichi and T. Kamei, Lubrication of modified perfluoropolyether on magnetic media 332
Koon, N.C., see Sui, X. 132
Kraan, W.H., P.T. Por and M.Th. Rekveldt, Small angle neutron scattering in Co–Cr films in perpendicular and non-perpendicular transmission 219
Kraan, W.H., see Por, P.T. 306
Kraan, W.H., see Por, P.T. 86
Kratzer, M., see Becker, S. 376
Krauss, P.R., see Chou, S.Y. 151
Kryder, M.H., see Sui, X. 132

Lai, W.Y., C.Y. Pan, Y.Z. Wang, M.L. Yan, S.X. Li and C.T. Yu, Giant magnetoresistance effect observed in Fe/Mo superlattices formed by magnetron sputtering 358
Lambeth, D.N., see Laughlin, D.E. 146
Laughlin, D.E., Y.C. Feng, D.N. Lambeth, L.-L. Lee and L. Tang, Design and crystallography of multilayered media (*Invited paper*) 146
Laughlin, D.E., see Pan, T. 309
Lee, J.J.K., see Tian, H. 329
Lee, L.-L., see Laughlin, D.E. 146
Lehner, A., see Weingart, F. 77
Lesnik, N.A., see Kakazei, G.N. 57
Li, J., S.S. Rosenbluem, H. Hayashi and R. Sinclair, Magnetic and structural characteristics of sputtered barium ferrite thin films 157
Li, S.X., see Lai, W.Y. 358
Lin, C.-L., T. Yeh, G. Wang, J.-C. Lin, J.M. Sivertsen and J.H. Judy, Structure and magnetic properties of CoCrTa films deposited on thin NiFe films 168
Lin, J.-C., see Lin, C.-L. 168
Liu, B. and W.W. Clegg, Computer modelling of spatial temperature gradient dependence of magnetic field modulation in magneto-optic recording 379
Liu, B. and W.W. Clegg, Modelling of boundary regularity and thermo-magnetic writing process of magneto-optic recording 382
Liu, P.-Y. and H.-P.D. Shieh, Center aperture detection on magnetically induced super resolution magneto-optical disks 385
Lodder, J.C., see Immink, A.H.J. 279
Lodder, J.C., see Luitjens, S.B. 261
Lodder, J.C., see Samwel, E.O. 292
Lodder, J.C., see de Haan, S. 193
Luitjens, S.B., S.E. Stupp and J.C. Lodder, Metal evaporated tape: state of the art and prospects (*Invited paper*) 261
Lyakhovich, T.K. and G.N. Kadykova, Coercivities of different recording media types for ion-beam-deposited and annealed samples 253
Lyberatos, A., see Earl, J.S. 367

Maeda, H., see Ouchi, I. 222
Mapps, D.J., see Chandrasekhar, R. 202
Mapps, D.J., see Chandrasekhar, R. 206
Mapps, D.J., see Tan, B. 345
Matsuda, H., I. Takasu, D. Kim, O. Takano and P.J. Grundy, Magnetic recording properties of electrolessly deposited NiXP/CoReNiMnP double layer media 250
Matsushita, N., see Naoe, M. 216
McConochie, S.R., F. Schmidlin, P.R. Bissell, J.A. Gotaas and D.A. Parker, Interaction effects from reversal studies of single particles 89
Mee, C.D., MRM'95 Foreword 1
Memering, M., see Asano, K. 107
Mes, J., see Por, P.T. 86
Middleton, B., see Casey, S. 348
Middleton, B.K., J.J. Miles and S.R. Cumpson, Models of metal evaporated tape (*Invited paper*) 266
Miles, J., see Casey, S. 348
Miles, J.J., see Middleton, B.K. 266
Miles, J.J., see Walmsley, N.S. 28
Moon, C.Y., see Cho, K.C. 284
Morales, M.P. and K. O'Grady, Effects of dispersion on interaction and orientation in barium ferrite tapes 95
Morales, M.P., K. O'Grady, S. Betteridge and D.P.E. Dickson, Determination of out-of-plane orientation in barium ferrite media using Mössbauer spectroscopy 129
Much, G., see Bernards, J.P.C. 370
Müller, R. and W. Schüppel, Co spinel ferrite powders prepared by glass crystallization 110
Muraoka, H., see Sano, Y. 212

Nagai, N., see Okamoto, K. 60
Nakagawa, S., S. Tanaka and M. Naoe, Relationship between Ta content and soft magnetism of Co–Zr–Ta films for backlayers in perpendicular magnetic recording media 231
Nakagawa, S., see Yu, S.-C. 225
Nakai, I., see Ouchi, I. 222
Nakai, J., A. Kikuchi, K. Nakatani, M. Hirasaka, T. Shimatsu and M. Takahashi, Microstructure and intergranular coupling in CoCrTa thin-film media fabricated using an ultraclean sputtering process 234
Nakai, J., see Kikuchi, A. 238
Nakamura, Y., see Sano, Y. 212
Nakamura, Y., see Tagawa, I. 341
Nakamura, Y., see Wang, Z. 161
Nakamura, Y., see Wang, Z. 187
Nakatani, K., see Nakai, J. 234
Naoe, M. and N. Matsushita, Deposition of single-layer $CoFe_2O_4$ and multilayer $CoFe_2O_4/\alpha$-Fe_2O_3 with large $4\pi M_s$ and high H_c using vacuum arc evaporation 216
Naoe, M., see Nakagawa, S. 231
Naoe, M., see Yu, S.-C. 225
New, R.M.H., R.F.W. Pease and R.L. White, Lithographically patterned single-domain cobalt islands for high-density magnetic recording (*Invited paper*) 140
Nikles, D.E., see Cain, J.L. 67
Nikles, J.A., see Cain, J.L. 67

Obernosterer, F. and W.F. Oehme, Pulse noise in thin film disk recording systems 338
Oehme, W.F., see Obernosterer, F. 338
O'Grady, K., see Dova, P. 176
O'Grady, K., see Earl, J.S. 367
O'Grady, K., see Greaves, S.J. 120
O'Grady, K., see Morales, M.P. 129
O'Grady, K., see Morales, M.P. 95
O'Grady, K., see Phillips, G.N. 364
Ogrin, F.Y. and P.W. Haycock, FMR studies of cobalt thin films deposited by MOCVD 199
Okamoto, I., see Kikuchi, A. 238
Okamoto, K., Y. Okazaki, N. Nagai and S. Uedaira, Advanced metal particles technologies for magnetic tapes (*Invited paper*) 60
Okazaki, Y., see Okamoto, K. 60
O'Neill, M., see Atkinson, R. 361
Ouchi, I., I. Nakai and H. Maeda, XAFS studies of Co–Cr films 222
Ouchi, K., see Ariake, J. 228
Ouchi, K., see Honda, N. 154

Palmeri, D., see Bottoni, G. 113
Pan, C.Y., see Lai, W.Y. 358
Pan, G., see Tan, B. 345
Pan, T., G.W.D. Spratt, L. Tang and D.E. Laughlin, Magnetic properties and microstructure of evaporated Co oxide tape media 309
Pankhurst, Q.A., G.R. Thompson, V.K. Sankaranarayanan and D.P.E. Dickson, Effect of ultrafine particle size and crystallinity breakdown on the ordered magnetic state in barium ferrite 104
Parker, D.A., see McConochie, S.R. 89
Parker, D.A., see Por, P.T. 70
Parker, D.A., see Walmsley, N.S. 28
Pease, R.F.W., see New, R.M.H. 140
Phillips, G.N., K. O'Grady and R.W. Chantrell, An analysis of magnetic viscosity in MO films – I: experimental 364
Poganiuch, P., see Keller, H. 101
Popma, Th.J.A., see Samwel, E.O. 292
Por, P.T., G.N. Coverdale, R.W. Chantrell, M.Th. Rekveldt, A. Hart and D.A. Parker, Theory of neutron depolarisation in particulate dispersions 70
Por, P.T., M.Th. Rekveldt and W.H. Kraan, Determination of the magnetic structure of metal-evaporated tape by small-angle neutron scattering 306
Por, P.T., W.H. Kraan, J. Mes and M.Th. Rekveldt, Magnetic correlations between Co-modified γ-Fe_2O_3 particles in a solid matrix studied by neutron depolarisation in fields up to 0.5 T 86
Por, P.T., see Kraan, W.H. 219
Prance, R.J., see Howells, G.D. 55
Puppin, E., see Callegaro, L. 190

Raasch, D., see Bernards, J.P.C. 370
Rekveldt, M.Th., see Kraan, W.H. 219
Rekveldt, M.Th., see Por, P.T. 306
Rekveldt, M.Th., see Por, P.T. 70
Rekveldt, M.Th., see Por, P.T. 86
Rekveldt, M.Th., see van der Graaf, A. 303
Rengel, H., see Keller, H. 101
Richter, H.J. and R.J. Veitch, A reconsideration of length loss effects 335
Richter, H.J. and R.J. Veitch, MP tape for high density digital recording 80
Robinson, P., see Tan, B. 345
Rohrmann, H., see Becker, S. 376
Röll, K., see Becker, S. 376
Rose, J., see Casey, S. 348
Rosenbluem, S.S., see Li, J. 157
Rousset, A., see Bouet, L. 373

Sakurai, T., see Kawakita, S. 172
Samwel, E.O., D.B. Bijl, J.C. Lodder and Th.J.A. Popma, Intrinsic angular investigations on metal evaporated tapes 292
Sankaranarayanan, V.K., see Pankhurst, Q.A. 104
Sano, Y., H. Muraoka, I. Watanabe and Y. Nakamura, Effects of nitrogen addition to the CoCr recording layer of a double layered perpendicular rigid disk 212
Sato, K., see Kawana, T. 273
Sato, T., see Ishiguro, T. 256
Scherge, M., see Sui, X. 132
Schmidlin, F., see McConochie, S.R. 89

Schrefl, T. and J. Fidler, 3D calculation of magnetization processes in Co/Pt multilayers 389
Schüppel, W., see Müller, R. 110
Sequeda, F., see Tang, X. 164
Shieh, H.-P.D., see Liu, P.-Y. 385
Shim, Y.J., see Cho, K.C. 284
Shimatsu, T., D.D. Djayaprawira, A. Endo, N. Iwata, M. Takahashi and T. Wakiyama, Intergranular magnetic coupling in CoNiCrPt and CoCrTaPt thin-film media characterized by the temperature dependence of the rotational hysteresis loss 242
Shimatsu, T., D.D. Djayaprawira, M. Takahashi and T. Wakiyama, Effect of Pt on the magnetic anisotropy and intergranular exchange coupling in $(Co_{86}Cr_{12}Ta_2)_{100-x}Pt_x$ and $(Co_{62.5}Ni_{30}Cr_{7.5})_{100-x}Pt_x$ thin-film media 246
Shimatsu, T., see Kawakita, S. 172
Shimatsu, T., see Kikuchi, A. 238
Shimatsu, T., see Nakai, J. 234
Shinohara, T., see Ishiguro, T. 256
Simmons, R., see Davidson, R. 13
Sin, K., P. Glijer, J.M. Sivertsen and J.H. Judy, Electron energy loss spectroscopy studies of CoCrTaPt/Cr thin films for high-density longitudinal magnetic recording media 209
Sinclair, G.J., G.A. Jones and P.J. Grundy, Magnetic interactions in CoCrPt bilayer films 182
Sinclair, G.J., see Dova, P. 176
Sinclair, R., see Li, J. 157
Sivasamy, P., see Casey, S. 348
Sivertsen, J.M., see Lin, C.-L. 168
Sivertsen, J.M., see Sin, K. 209
Snyder, J.E., see Sui, X. 132
Sobolev, V.L. and H.L. Huang, Magnetization dynamics in a medium with spatial dispersion of relaxation 46
Sobolev, V.L., see Teh, C.T. 43
Sollis, P.M., P.R. Bissell and R.W. Chantrell, The effects of texture and interactions on transverse susceptibility measurements of particulate media 123
Speliotis, D.E., Advanced MP^{++} and $BaFe^{++}$ tapes 83
Spratt, G.W.D., see Pan, T. 309
Stancu, A., Numerical implementation of mixed-type models for recording media magnetization processes 22
Stupp, S.E. and J.P.C. Bernards, Inter-layer variation in the magnetic properties in multi-layer ME tapes 300
Stupp, S.E., Surface erasure effect at larger easy-axis angles in ME tape 276
Stupp, S.E., see Luitjens, S.B. 261
Stupp, S.E., see van der Graaf, A. 303
Sui, X., M. Scherge, M.H. Kryder, J.E. Snyder, V.G. Harris and N.C. Koon, Barium ferrite thin-film recording media (*Invited paper*) 132
Sullivan, J.L., The tribology of flexible magnetic recording media (*Invited paper*) 312
Sullivan, J.L., see Hempstock, M.S. 323
Sürig, C. and K.A. Hempel, Magnetization processes and ferromagnetic resonance of Hi-8 recording media 289
Suzuki, H., P.R. Bissell, R.W. Chantrell and N. Kodama, In-plane time-dependent magnetisation and magnetic interactions of Co–Cr–Ta thin films 196

Tagawa, I., A. Takeo and Y. Nakamura, Numerical analysis of noise and interparticle interaction in perpendicular magnetic recording media 341
Tailhades, P., see Bouet, L. 373
Takahashi, M., see Kawakita, S. 172
Takahashi, M., see Kikuchi, A. 238
Takahashi, M., see Nakai, J. 234
Takahashi, M., see Shimatsu, T. 242
Takahashi, M., see Shimatsu, T. 246
Takano, O., see Matsuda, H. 250
Takasu, I., see Matsuda, H. 250
Takatori, S., see Asano, K. 107
Takeda, T., see Kawana, T. 273
Takeo, A., see Tagawa, I. 341
Tako, K.M., M.A. Wongsam and R.W. Chantrell, Numerical simulation of 2D thin films using a finite element method 40
Tan, B., D.J. Mapps, G. Pan and P. Robinson, A new servo method using servo layer and transverse MR head for submicron track servo on hard computer disks 345
Tanaka, S., see Nakagawa, S. 231
Tang, L., see Laughlin, D.E. 146
Tang, L., see Pan, T. 309
Tang, X., G.-L. Chen, F. Sequeda and D. Chen, Temperature and seed layer effects on the magnetics of sputtered glass-ceramic disks 164
Teh, C.T., H.L. Huang and V.L. Sobolev, Azimuthal angle dependence of the structure and energy of domain walls 43
Thomas, J.W., see Warren, A.P. 117
Thompson, G.R., see Pankhurst, Q.A. 104
Tian, H. and J.J.K. Lee, Effect of disk surface contours on head flyability 329
Tobise, M., see Ishiguro, T. 256
Tucker, J.W., see Hua, L. 49

Uchimi, T., see Kawana, T. 273
Uedaira, S., see Okamoto, K. 60

Vajda, F. and E. Della Torre, A vector moving hysteresis model with accommodation 25
Van der Graaf, A., H. Fredrikze, M.Th. Rekveldt and S.E. Stupp, Polarized neutron reflectometry on a two-layer ME tape 303
Varga, L., see He, L. 6
Vedula, R.R., see Kim, K.J. 73
Veitch, R.J., see Richter, H.J. 335
Veitch, R.J., see Richter, H.J. 80
Vittoria, C., see Howells, G.D. 55

Wakiyama, T., see Shimatsu, T. 242
Wakiyama, T., see Shimatsu, T. 246

Walmsley, N.S., A. Hart, D.A. Parker, R.W. Chantrell and J.J. Miles, A simulation of the role of physical structure on feature sizes in exchange coupled longitudinal thin film 28
Wang, G., see Lin, C.-L. 168
Wang, Y.Z., see Lai, W.Y. 358
Wang, Z. and Y. Nakamura, A new type of GMR memory 161
Wang, Z. and Y. Nakamura, The magnetization reversal mechanism in soft magnetic film 187
Warren, A.P., C. Dean, P.R. Bissell, R.W. Chantrell and J.A. Gotaas, Noise time series simulation for a thin film recording medium 19
Warren, A.P., P.C. Hobby, G.N. Coverdale, R.W. Chantrell, R.G. Gilson and J.W. Thomas, Computer simulation of the orientation dynamics of a 2D array of fine magnetic particles in an opposed-poles orientation magnet 117
Watanabe, I., see Sano, Y. 212
Watkins, C., see Howells, G.D. 55
Weingart, F., G. Brodt and A. Lehner, AB-block copolymers as dispersants in magnetic coating formulations 77
White, R.L., see New, R.M.H. 140
Williams, J.M., H.J. Blythe and V.M. Fedosyuk, An investigation of electrodeposited granular CuFe alloyed films 355
Wongsam, M.A., R.W. Chantrell and P.W. Haycock, A Hamiltonian description of FMR in finite continuous media 37
Wongsam, M.A., see Tako, K.M. 40

Yamada, S., see Ishiguro, T. 256
Yan, M.L., see Lai, W.Y. 358
Yang, J.-S., see Chang, C.-R. 92
Yeh, T., see Lin, C.-L. 168
Yu, C.T., see Lai, W.Y. 358
Yu, S.-C., J.-S. Baek, S. Nakagawa and M. Naoe, Underlayer thickness dependence of magnetic properties of $Co_{83}Cr_{17}/Co_{96}Zr_4$ double layer by FTS system 225
Yu, Y. and J.W. Harrell, FMR determination of damping constants in magnetic tapes 126

Zangari, G., see Callegaro, L. 190
Zimmermann, G. and K.A. Hempel, Comparison of the magnetization reversal of Hi-8 ME and MP videotape 286
Zimmermann, G. and K.A. Hempel, Remanence properties and critical radius of two single-domain spheres with a point contact 98

ELSEVIER

Journal of Magnetism and Magnetic Materials 155 (1996) 399

Journal of magnetism and magnetic materials

Materials index to volume 155

Al_2O_3–TiC 318
p-aramide 273

$BaFe_{12-2x}Co_xTi_xO_{19}$ 95
$BaFe_{12}O_{19}$ 83, 104, 157
Barium ferrite 132
Barium ferrite (Co/Ti doped) 129
BiGa 361

Ceramics 318
Co 57, 161, 199, 273
Co/CoO 309
Co/Pt 389
Co alloy 172, 246
Co–Cr 154, 193, 222, 341
$Co_{81}Cr_{19}$ 219
$Co_{83}Cr_{17}$ 225
CoCr thin film 212
Co–Cr–Nb 228
CoCrPt 146
$Co_{75}Cr_{17}Pt_8$ 182
CoCrPt films 179
CoCrPtTa 164
Co–Cr–Ta 196, 228
CoCrTa 168, 172, 234, 242
$Co_{78.5}Cr_{17.5}Ta_4$ 202, 345
CoCrTa/Cr 256
CoCrTaPt 209, 242, 246
$Co_{77.0}Cr_{17.5}Ta_4Sm_{1.5}$ 202
Co–γ-Fe_2O_3 123
$Co_xFe_{3-x}O_4$ 110
$CoFe_2O_4$ 216
$Co_{0.73}Mn_{0.13}Fe_{2.14}O_{4+d}$ 373
CoNi 126
$Co_{80}Ni_{20}$ 261, 279, 306
CoNiCr 172, 242
CoNiCrPt 242, 246
Co–Ni–O 276, 279, 284, 300
CoNiO 297
$Co_{71}Ni_{16}O_{13}$ 303
Co–O 261, 276, 300
CoPt 190
CoPtCr/Cr 176
CoReNiMnP 250
$Co_{96}Zr_4$ 225
$(Co_{95.7}Zr_{4.3})_{100-x}Ta_x$ 231
CrO_2 70, 89, 123, 126
Cu 161
CuCo 352
Cu_xFe_{1-x} 355
CuFe 355

DyFeCo 370, 385
DyIG 361

α-Fe 67
α-Fe_2O_3 216
Fe/Mo multilayers 358
Fe–Co alloy 60
$Fe_{80}B_{15}Si_5$ 55
γ-Fe_2O_3 34, 70, 86, 89

GdFeCo 385
Glass–ceramic 164

Iron oxide (Co-modified) 107

Metallic glass (Co-based) 113
MgO 146

Ni 57, 273
NiAl 146
NiFe 161, 168, 187
$Ni_{81}Fe_{19}$ 345
NiFeP 250
NiWP 250
Ni–Zn ferrite 318

PET 273
Perfluoro polyether 332
Polyurethane (dispersible thermoplastic) 73
$Pt_{99.9}/Co_{78.5}Cr_{17.5}Ta_4$ 206
$Pt_{20}Co_{80}$ 348
$Pt_{30}Co_{70}$ 348

Si_3N_4 376
Silane 101

Tb/Fe multilayer 364
TbFeCo 370
$Tb_{31}Fe_{59}Co_{10}$ 376
Ti underlayer 228

Yttrium 60

ZnO 199

ELSEVIER

Journal of Magnetism and Magnetic Materials 155 (1996) 401–402

journal of magnetism and magnetic materials

Subject index to volume 155

AB-block copolymer 77
Activation volume 52
Addition effects 231, 242
Adsorption heat 332
Anisotropy 309
– exchange 297
– magnetic 246
– magnetocrystalline 140
– oblique 284
– perpendicular 57, 228, 250, 376
Annealing effects 113
Archival stability 273
Azimuthal angle dependence 43

Backlayer 231
Boundary regularity 379, 382

C/N ratio 382
Center aperture detection 385
Coercive force 234
Coercivity 168, 253
– fine particles 92
– perpendicular 154, 228
– remanent 6
Colloids 67
Corrosion 261
Critical phenomena
– radius 98
Crystallization
– glass 110
δM curves 19

Damping 6
Damping constants 126
Demagnetization compensation 292
Diffusion process 376
Direct overwrite 370
Dispersing binder 77
Dispersion 77, 95, 120
– particulate 70
– pigment 73
Domain wall 49, 389
– dynamics 46
– structure 43
Domains 140, 306
– reversed 187
Doping effect 16

Easy axis orientation 117
Electrodeposition 190, 352, 355
Electrolessly deposited film 250
4d elements 358
EXAFS 222
Exchange-coupled layers 370
Exchange coupling
– intergranular 234, 238, 242, 246
– interlayer 176
– intralayer 176

Ferrite
– spinel 110, 373
Ferromagnetic resonance absorption 289
Ferromagnets
– amorphous 113
Finite element method 40
Flyability 329
Friction 318

Grain boundary 234, 238
Granular alloys 352, 355

Hall effect 193
Hamiltonian dynamics 37
Hysteresis 34
– models 13
– rotational 16
– vector model 25
Hysteresis loop 376
Hysteresis loss
– rotational 242

Interaction effects 31, 89, 95, 123, 176
– particle–particle 98, 341
Interface
– rough 358
Intergranular coupling 172
Intrinsic hysteresis 300

Iron 67
Iron films 49

Kerr effect 376
– enhancement 361

Landau–Lifshitz equation 46
Lecithin 67
Length loss 335
Lithography
– electron beam 140, 151
Local energy fluctuations 168
Lubrication 332

Magnetic fields
– modulation 379
Magnetic hardening 113
Magnetic interactions 157, 179, 182, 190, 196
Magnetic moment
– dynamics 46
Magnetic multilayers 389
Magnetic particles 70
– acicular 89
Magnetic recording 179, 190, 250, 341
– data layer 345
– digital 266
– disk 329
– head 329
– high density 140, 202
– longitudinal 132, 196
– perpendicular 132, 212, 219, 225
– read signal 338
– servo layer 345
– servo pattern 345
– transition noise 338
– transverse head 345
Magnetic recording media 132, 253, 273
– bilayer 182
– disk 338
– double layered tape 279
– flexible 312
– high density 209
– high density tape 83

– isotropic 216
– longitudinal 146, 209, 216, 256
– ME tape 80, 286, 289
– MP tape 60, 80, 286
– noise 238, 338, 341
– particulate 86, 89, 123
– particulate magnetic tapes 83
– perpendicular 154, 231
– sputtered discs 164
– tape 6, 80, 126, 309
– thin film 157, 172, 228, 234, 238, 242, 246, 338
– thin layer tape 80
– tilted 289
– ultrahigh density 151
– video tape 107
Magnetic storage 161
Magnetic structure 70, 306
Magnetic switching 107
– high speed 6
Magnetic switching field 182
Magnetic switching mode 16
Magnetic switching speed 126
Magnetic viscosity 6, 52, 364, 367
Magnetically induced super resolution 385
Magnetization
– processes 22
– time dependent 196, 364
Magnetization process 34
Magnetization profile 303
Magnetization reversal 187, 193, 286
Magneto-optic recording 379, 382, 389
Magneto-optic recording media 370, 376
Magneto-optical properties 373
Magneto-optics 361, 364, 367
Magnetoresistance
– giant 161, 358
– response 187
Magnetostatistics 92
Magnetostriction
– low 231
Memory
– solid state 161
Metal evaporated tape 261, 266, 273, 276, 279, 284, 292, 297, 300, 303, 306, 309, 323
Metal pigment 77
Micro-segregation 154
Micromagnetic models 266
Micromagnetics 37, 40, 49, 193, 389
Microscope
– magnetic 55
Microscopic properties 55
Microscopy 348
– atomic force 318
– magnetic force 212
– scanning probe 55
Microstructure 154, 202, 206, 222, 284, 309
Microtribology 318
Molecular structure 73
Monte-Carlo simulations 70
Mössbauer spectroscopy 104, 129, 355
Multilayers 216, 361
– films 176
– interlayer 146
– intermediate layer 146
– magnetic 199
– seed layer 146, 164
– underlayer 146

Nanoparticles 67
Nanotechnology 151
Neutron depolarization 70, 86
Neutron scattering
– small angle 219, 306
Noise 19
– medium 212
– particle length 335
Noise power 28

Oblique easy axis 276, 300
Oblique evaporation 261
Orientation 95, 126, 129
– preferred 256
Oxidation protection 101

Particle size distribution 60
Particles 101
– ferrite 86
– fine 31, 110, 117
– length 335
– magnetic 107
– metal 120
– packing factor 92
– size 104
– statistical behavior 34
– ultrafine 104
Polarized neutron reflectometry 303
Pole density distribution 256
Preisach models 13, 22, 25
Protection layer 261

Quantum magnetic disk 151

Relaxation
– spatial dispersion 46
Remanence 182
– angular 292
– rotational 25
– state 98
Remanence curves 120
Resonance
– ferromagnetic 37, 57, 126, 199
Rocking curve 225

Signal to noise ratio 60
Simulation 117, 341, 379
– media 13
– Monte-Carlo 367
Spatial temperature gradient 379
Spectroscopy
– electron energy loss 209
– X-ray photoelectron 332
Sputtering 154, 157, 348
– facing targets 225, 231
– negative bias 206
– ultra clean 172, 234, 238
SQUID 355
Steric stabilization
– model polymers 73
Stoner–Wohlfarth model 22
Structure
– irregular 28
Substrate surface 172
Surface energy 332
Surface erasure effect 276
Surface treatment 60
Susceptibility
– magnetic 55
– transverse 123

Texture 129, 168, 182, 253
– crystallographic 146
Thermal relaxation 31
Thermal stability 52
Thin films 19, 40, 176, 179, 193, 219, 225, 256, 297, 306, 323, 348, 352, 358, 361, 373
– amorphous 231
– ferromagnetic 57
– longitudinal 28
– magnetic 209
– multilayer 364
– perpendicular 206
– sandwich 202
– sputtered 132, 168
Time series 19
Torque 292
Transverse field dependence 43
Tribology 261, 312, 318, 323, 329

Ultrathin layers 101

Vacuum arc evaporation 216
Vapor deposition
– metal–organic chemical 199
Vector diffraction theory 385
Vectorial vibrating reed magnetometer 286

Wear 318
Writing process modeling 382

XANES 222